

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT		ATTORNEY DOCKET NO
07/130,09	7 12/07/87	7 WARD	————	ENZ-1 (CONT
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		·	CRANE,	L
JAMES F. HALEY, JR. FISH & NEAVE			ART UNIT	PAPER NUMBER
875 THIRD				9
NEW YORK,	NY 10022	Ĺ	183	
This is a communication	n from the examiner in o	charge of your application.		03/25/91
сом	MISSIONER OF PATER	NTS AND TRADEMARKS		

	d statutory period for response to this action is set to expire <u>3</u> respond within the period for response will cause the application to b		
Part II	Notice of Art Cited by Applicant, PTO-1449 4. Information on How to Effect Drawing Changes, PTO-1474 6.	Notice re Patent Drawing, Notice of informal Patent Merck Index [X] Manbeck's m	Application, Form PTO-152 pages.
ı. 🛣	Claims 101-103, 110-112, 138, 139,	146-151	_are_pending in the application.
	Of the above, claims		are withdrawn from consideration.
2. 🗀	Claims		have been cancelled.
3. 🗀	Claims		are allowed.
4. 🛣	Claims 101-103, 110-112, 139, 138,	146-151	are rejected.
5.	Claims	,	are objected to.
6. 🔲	Claims	are subject to re	estriction or election requirement.
7.	This application has been filed with informal drawings which are accommatter is indicated.	eptable for examination purposes	until such time as allowable subject
8.	Allowable subject matter having been indicated, formal drawings are	required in response to this Office	ce action.
9. 🗀	The corrected or substitute drawings have been received on not acceptable (see explanation).	These drawing	ngs are 🗀 acceptable;
10.	The proposed drawing correction and/or the proposed additing that (have) been approved by the examiner disapproved by		vings, filed on
11.	The proposed drawing correction, filed, the Patent and Trademark Office no longer makes drawing changes. corrected. Corrections MUST be effected in accordance with the insEFFECT DRAWING CHANGES", PTO-1474.	It is now applicant's responsibil	ity to ensure that the drawings are
12.	Acknowledgment is made of the claim for priority under 35 U.S.C. 11	9. The certified copy has b	een received not been received
13.	Since this application appears to be in condition for allowance exce accordance with the practice under Ex parte Quayle, 1935 C.D. 11;	pt for formal matters, prosecution	as to the merits is closed in
14.	Other		

SN 130,097

EXAMINER'S ACTION

PTQL-326 (Rev. 7 - 82)

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Claims 101–103, 110–112, 138–139 and 146–151 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over the prior invention as set forth in claims 1–21 of U.S. Patent No. 4,711,955. Although the conflicting claims are not identical, they are not patentably distinct from each other because the <u>instant</u> claims are directed to much of the same subject matter of the already patented claims.

The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of monopoly by prohibiting claims in a second patent not patentably distinct from claims in a first patent. In re Vogel, 164 USPQ 619 (CCPA 1970). A timely filed terminal disclaimer in compliance with 37 CFR 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.78(d).

Applicant's arguments filed December 24, 1990 have been fully considered but they are not deemed to be persuasive.

Applicant is requested to note that the submission of a competent request for terminal disclaimer must <u>precede</u> withdrawal of the rejection supra. Hence, the rejection is maintained and the instant office action made final in order to render the instant prosecution as compact as possible.

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The disclosure is objected to because of the following informalities: Applicant is requested to carefully review both the specification and the claims (paper no. 3 particularly) for <u>spelling errors</u>.

Appropriate correction is required.

Applicant's arguments filed December 24, 1990 have been fully considered but they are not deemed to be persuasive.

Applicant's compliance with the request for replacement pages is noted. However, applicant is requested to comply with the instant request for the correction of the numerous spelling errors in paper no. 3, e.g. see purported errors at page 2, the first term of line 14 (claim 101); page 2 the 7th term in line 22 (claim 102); page 3, line 11, 3rd term (claim 110).

Claims 101–103, 110–112, 138, 139, and 146–151 are rejected under 35 U.S.C. 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 101 and 110, the terms "purine", "deazapurine", and "pyrimidine" are unduly broad and indefinite in view of the vast arrays of structures these terms encompass in comparison with the very meager number of disclosed specific embodiments of the instant

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specification. Applicant is requested to limit the scope of the instant claims to the specific embodiments.

In claims 101 & 110 the term "A represents a component of a detectable complex" is both indefinite and of excessive scope. Applicant fails to further define the upper limit on the size of "A" and also fails to further define in said claim what is intended by the term "detectable complex" in a manner commensurate with the implicit limitations of the instant disclosure.

In claims 101 & 110 the term "at least one" is indefinite and excessively broad due to its lack of accompanying claim language providing an upper bound.

In claim 101 & 110 the last three lines of said claim as amended in amendment B imply a multi-layered immunological sandwich(es) which is/are not described in enough detail for one of ordinary skill to know the metes and bounds of what is being claimed.

In claims 102 & 111 the term "a moiety which can be detected" is functional language so broad and indefinite as to be useless in determinations of the metes and bounds of what is being claimed.

In claim 138 and 139 the subject matter claimed is expanded further to include both 2',3'- and 3',5'-cyclic monophosphates, neither of which is represented by even a single specific embodiment.

In claim 146-148 the terms "A is a ligand" and dependent references thereto are both indefinite and unenabled in view one of

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ordinary skill's inability to determine which "ligand[s]" applicant intends to claim?

In claim 149 the terms "detectable by means inherent in the polypeptide or by means of detectable moieties which are attached thereto" is both indefinite and unenabled in view one of ordinary skill's inability to determine the metes and bounds of the subject matter applicant intends to claim?

In claim **150** the term "a detectable moiety" is both indefinite and unenabled in view one of ordinary skill's inability to determine the metes and bounds of the subject matter applicant intends to claim?

In claim **151** the terms "enzyme", "substrate", and "detectable product" are both indefinite and unenabled in view one of ordinary skill's inability to determine the metes and bounds of the subject matter applicant intends to claim?

Appropriate correction is requested.

Applicant's arguments filed December 24, 1990 have been fully considered but they are not deemed to be persuasive.

Applicant is requested to note that the rejection concerning number of 7-deazapurines has been reconsidered and withdrawn. However, in order to provide applicant with basis for the numbering of one non-purine isoster (e.g. pyrrolo[2,3-d]pyrimidines claimed herein) a copy of two pages from the Merck Index have been enclosed for applicant's inspection.

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As to the remaining bases for rejection, applicant is requested to note that the presence of indefinite and unenabled terminology in the specification does not justify its repetition in the claims (see terms including the term "detectable"). As to applicant contention that "detectable complexes" were "well known in the art at the time of filing" is a misstatement of the issue. As applicant is well aware, claim language is intended to legally define property boundaries, whereas the terminology of the art in common usage is not similarly constrained. Applicant is thus encouraged to reconsider sharpening the boundaries of the instant claimed subject matter by appropriate amendments in order to comply with the criticisms repeated supra.

In order for applicant to be aware of current office policy as regards communications with examiners generally, a copy of the Commissioner's memo regarding office policy in this matter has been enclosed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY

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EXTENSION FEE PURSUANT TO 37 CFR 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner L. E. Crane whose telephone number is 703-308-3999.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group 180 receptionist whose telephone number is 703-308-0196.

Applicant is advised that as of October 1, 1990 C&P Telephone has changed dialing protocols and all telephone calls to the PTO from <u>outside</u> Northern Virginia will require use of the area code (703).

Applicant is advised that as of October 13, 1990 C&P Telephone has changed all examiners telephone numbers at the PTO.

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3/15/91

Johnnie R. Brown

JOHNNIE R. BROWN

SUPERVISORY PATENT EXAMINER

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